TENT COOPERATION TREA

	From the INTERNATIONAL BUREAU
PCT	To:
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 22 November 2000 (22.11.00)	VAN HEUVEL, Margaretha DSM N.V. DSM Patents & Trademarks, Office Delft (994-0760) P.O. Box 1 NL-2600 MA Delft PAYS-BAS
Applicant's or agent's file reference	
WO 02954	IMPORTANT NOTIFICATION
International application No. PCT/EP00/02191	International filing date (day/month/year) 09 March 2000 (09.03.00)
1. The following indications appeared on record concerning:	
X the applicant the inventor	the agent the common representative
Name and Address DSM N.V. Het Overloon 1	State of Nationality State of Residence NL NL Telephone No.
NL-6411 TE Heerlen Netherlands	+31 (0)455788111
IAGUIGUAUGS	Facsimile No.
	+31 (0)455719753
	Teleprinter No.
	•
2. The International Bureau hereby notifies the applicant that to X the person X the name X the add	
Name and Address	State of Nationality State of Residence
COSMOFERM B.V.	NL NL
Wateringseweg 1 NL-2611 XT Delft	Telephone No. +31 (0)455788111
Netherlands	Facsimile No.
	+31 (0)455719753
	Teleprinter No.
3. Further observations, if necessary:	
4. A copy of this notification has been sent to:	
X the receiving Office	the designated Offices concerned
the International Searching Authority	X the elected Offices concerned
X the International Preliminary Examining Authority	other:
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Dominique DELMAS
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

TENT COOPERATION TRE. Y

	From the INTERNATIONAL BUREAU
PCT	To:
NOTIFICATION OF THE RECORDING OF A CHANGE	GEVERS & VANDER HAEGHEN N.V.
(PCT Rule 92bis.1 and Administrative Instructions, Section 422)	Livornostraat 7 B-1060 Brussel P.O. Box 1 BELGIQUE
Date of mailing (day/month/year) 22 January 2001 (22.01.01)	
Applicant's or agent's file reference WO 02954	IMPORTANT NOTIFICATION
International application No. PCT/EP00/02191	International filing date (day/month/year) 09 March 2000 (09.03.00)
The following indications appeared on record concerning: the applicant the inventor	X the agent the common representative
Name and Address VAN HEUVEL, Margaretha DSM N.V.	State of Nationality State of Residence
DSM Patents & Trademarks, Office Delft (994-0760)	Telephone No. +31 (0)15 2793965
P.O. Box 1 NL-2600 MA Delft Netherlands	Facsimile No. +31 (0)15 2793957
	Teleprinter No.
The International Bureau hereby notifies the applicant that the Image: The International Bureau hereby notifies the applicant that the Image: The International Bureau hereby notifies the applicant that the Image: The International Bureau hereby notifies the applicant that the Image: The International Bureau hereby notifies the applicant that the Image: The International Bureau hereby notifies the applicant that the Image: The Image	
Name and Address GEVERS & VANDER HAEGHEN N.V.	State of Nationality State of Residence
Livornostraat 7 B-1060 Brussel P.O. Box 1 Balgium	Telephone No.
Belgium	Facsimile No.
	Teleprinter No.
3. Further observations, if necessary:	
4. A copy of this notification has been sent to:	
X the receiving Office	the designated Offices concerned
the International Searching Authority	X the elected Offices concerned
X the International Preliminary Examining Authority	X other: Former Agent
The International Bureau of WIPO	Authorized officer
34, chemin des Colombettes 1211 Geneva 20, Switzerland	R. Raissi
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

To:

From the	INTER	NATIONAL	BUREAU
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PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Commissioner

US Department of Commerce
United States Patent and Trademark
Office, PCT

2011 South Clark Place Room

CP2/5C24
Arlington VA 22202

Date of mailing (day/month/year) 07 November 2000 (07.11.00)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office
International application No. PCT/EP00/02191	Applicant's or agent's file reference WO 02954
International filing date (day/month/year) 09 March 2000 (09.03.00)	Priority date (day/month/year) 09 March 1999 (09.03.99)
Applicant	
STREEKSTRA, Hugo et al	

	STREEKSTRA, Hugo et al	
1.	The designated Office is hereby notified of its election made:	
	X in the demand filed with the International Preliminary Examining Authority on: 06 October 2000 (06.10.00)	
	in a notice effecting later election filed with the International Bureau on:	
2.	The election X was	
	made before the expiration of 19 months from the priority date or, where Rule 32 appli Rule 32.2(b).	es, within the time limit under
		· .
		•

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

S. Mafla

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35



PCT



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		Con National of Township of
WO 02954	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/month	h/year) Priority date (day/month/year)
PCT/EP00/02191	09/03/2000	09/03/1999
International Patent Classification (IPC) or nat C07C215/24	tional classification and IPC	
Applicant		
COSMOFERM B.V. et al.		
This international preliminary examinand is transmitted to the applicant and is transmitted to the applicant and increase and increase and increase are also as a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and increase are a second control of the applicant and a second control of the ap	nation report has been prepared coording to Article 36.	by this International Preliminary Examining Authority
2. This REPORT consists of a total of	6 sheets, including this cover sh	neet.
☐ This report is also accompanied been amended and are the basi (see Rule 70.16 and Section 60)	s for this report and/or sheets co	e description, claims and/or drawings which have ontaining rectifications made before this Authority ons under the PCT).
These annexes consist of a total of	sheets.	
3. This report contains indications relati	ing to the following items:	
I Basis of the report		
Ⅱ □ Priority		
III □ Non-establishment of op	inion with regard to novelty, inve	entive step and industrial applicability
IV Lack of unity of invention		
V ⊠ Reasoned statement und citations and explanation	der Article 35(2) with regard to no is suporting such statement	ovelty, inventive step or industrial applicability;
VI Certain documents cited		
VII Certain defects in the inte	ernational application	
VIII ⊠ Certain observations on t	the international application	
Date of submission of the demand	Date of co	ompletion of this report
06/10/2000	16.03.200)1
Name and mailing address of the international preliminary examining authority:	Authorized	d officer
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 e	pmu d Slootweg	g, A
Fax: +49 89 2399 - 4465	Telephone	9 No. +49 89 2399 8326

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GOTTO TOTAL TOTAL

PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

GEVERS & VANDER HAEGHEN N.V.

P.O. Box 1 PTO/PCT Rec'd 10 SEP 2001

B-1060 Brussel BELGIQUE

19-03- 2001 PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

Date of mailing

(osy/month/year)

16.03.2001

Applicants or agent's file reference

WO 02954

International filing data (day/month/year)

09/03/2000

IMPORTANT NOTIFICATION Priority asta (day/month/year)

09/03/1999

Applicant

COSMOFERM B.V. et : il.

International application No.

PCT/EP00/02191

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Of ices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEN

entrofized officer

Pfitzner, G

European Pate 11 Olice D-80298 Munic 1

Tel. +49 89 2319 - 0 Tx: 529658 epmu d Fax: +49 89 2339 - 4485

Tel.+49 89 2399-8032

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/02191

l. Basis c	f the report	
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•	th	sponse to an invitati	drawn on the basis of (substitute sheets which have been furnished to the receiving Office in on under Article 14 are referred to in this report as "originally filed" and are not annexed to lo not contain amendments (Rules 70.16 and 70.17).):
	1-	13	as originally filed .
	CI	aims, No.:	
	1-	12	as originally filed
	Dr	awings, sheets:	
	1/7	7-7/7	as originally filed
2	. Wi lan	th regard to the lang guage in which the i	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.
	Th	ese elements were a	vailable or furnished to this Authority in the following language: , which is:
		the language of a t	ranslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of put	blication of the international application (under Rule 48.3(b)).
			ranslation furnished for the purposes of international preliminary examination (under Rule
3.	Wit	h regard to any nucl rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inte	ernational application in written form.
		filed together with the	ne international application in computer readable form.
		furnished subseque	ently to this Authority in written form.
		furnished subseque	ntly to this Authority in computer readable form.
		The statement that the international app	the subsequently furnished written sequence listing does not go beyond the disclosure in plication as filed has been furnished.
		The statement that i listing has been furn	the information recorded in computer readable form is identical to the written sequence hished.
4.	The	amendments have r	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/02191

the drawings,	sheets:
This report has been considered to go bey	n established as if (some of) the amendments had not been made, since they have been yond the disclosure as filed (Rule 70.2(c)):
(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this
כ	This report has been considered to go bey

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims 4,7

Ves. Claims 4,7

No: Claims 1-3, 5-6, 8-12

Inventive step (IS)

Yes: Claims

No: Claims 1-12

Industrial applicability (IA)

Yes: Claims 1-12

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

R Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. D1 EP-A-0 373 038

> A. KISIC ET AL.: 'Studies in the sphingolipids series, XXXIL. Synthesis D2 = and resolution into optical antipods of C20-phytosphingosine' CHEM. PHYS. LIPIDS (1971), 7, p. 135-143, 1972,

D. SHAPIRO ET AL.: 'The total synthesis of sphingosine' J. Am. D3 = Chem. Soc., vol. 80, 1952, p. 1194-1197,

ABRAHAMSSON, SIXTEN ET AL: 'Molecular arrangements in glycosphingolipids' CHEM. PHYS. LIPIDS (1972), 8(2), 152-79, 1972,

STICHT, G. ET AL: 'Chemical synthesis of D,L-3-dehydrosphinganine, D5 = its C14-, C16-, and C20-homologs and the resolution into the enantiomeric forms' CHEM. PHYS. LIPIDS (1972), 8(1), 10-25, 1972,

RUBINO, FEDERICO MARIA ET AL: 'Characterization of sphingosine long-chain bases by fast atom bombardment and high-energy collision- induced decomposition tandem mass spectrometry' ORG. MASS SPECTROM. (1992), 27(12), 1357-64, 1992,

D7 = US-A-5 723 497

D8 = WO-A- 93/20038

N.Z. STANACEV ET AL.: 'Studies on the chemistry of mucolipids: D9 = occurence of the long-chain base icosisphingosine, composition of fatty acids, fractionation attempts' BIOCHIM. BIOPHYS. ACTA, vol. 98, 1965, pages 168-181,

D10 =WO-A-90/07571

D11 =GB-A-2 323 594

D12 =WO-A-98/49999 (cited in the application)

The following prior art documents disclose salts of "sphingoid bases" and their 2. uses:

D1 (p. 12, l. 41; p. 13, l. 10; see also claim 1, l. 46; claims 49, 61 and 63), D2 (salt of 8a with tartaric acid),

D3 (erythro-2-amino-3-hydroxy-4-octadecanoate-hydrochloride on p. 1196 right hand column),

D4 (compounds I, II and XI on p. 153, see also p. 154 "II. Materials and Methods", p. 156 "sphingosine hydrochloride and hydrobromide", and p. 159 first 3 lines),

D5 (p. 12 "3-hydro-sphingamine hydrochloride, p. 16, l. 16-24 and table 1),

D6 (compounds in fig. 1 on p. 1158),

D7 (for example compounds la-16, Ila-11, Ila-12, Ilb-2, and Ilc-8 together with claim 1)

D8 (the compounds disclosed on p. 6, l.15-20 together with p. 6, l. 28-29, see claims 1-3 and p. 1, I. 20-23 and I. 33-37)

D9 (composition in Table I, and compounds indicated on p. 172, I.8-10). These compounds fall within the definition given in claims 1-3, 5, 6 and 8-12 (Art. 33 (2) PCT).

- Claims 4 and 7 can be considered to satisfy Art. 33 (2) PCT because, sphingoid 3. base salts of the specific acids indicated in claim 4 were not disclosed in the prior art and claim 7 because the use of ethanol or methyl isobutyl ketone as a solvent for preparing sphingoid base salts has not been disclosed in the prior art.
- The sphingoid base derivatives of the prior art as set out above are also used for 4. medicinal and cosmetic purposes. The problem to be solved can, therefore, be defined as finding further compounds for this purpose. The applicant has indicated on p. 2 that the claimed compounds have increased solubility in water and improved efficacy when formulated in aqueous compositions. Comparisons were made only with compositions containing pure base. No comparison has, therefore, been made to the closest prior art. As such claims 1-12 are considered not to satisfy Art. 33 (3) PCT.

Re Item VII

Certain defects in the international application

4. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1-11 is not mentioned in the description, nor are these documents identified therein.

R Item VIII

Certain observations on the international application

The term "sphingoid" (resembling a sphingosine compound) is considered not 5. clear (Art. 6 PCT).



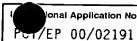
PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or ago	ent's file reference	FOR FURTHER	see Notification of	of Transmittal of Int	ternational Search Report	
WO 02954		ACTION (Form PCT/ISA/220) as well as, where applicable, item 5 below.				
International appl	ication No.	International filing date (da	ay/month/year)	(Earliest) Priorit	y Date (day/month/year)	
PCT/EP 00/	02191	09/03/20	000	C	9/03/1999	
Applicant						
DSM N.V. e	t al.					
This International according to Arti	al Search Report has beer icle 18. A copy is being tra	n prepared by this Internation nsmitted to the International	nal Searching Auth Bureau.	ority and is transm	litted to the applicant	
This Internationa	al Search Report consists It is also accompanied by	of a total of4 a copy of each prior art docu	sheets. ument cited in this	report.		
1. Basis of the	report					
a. With reg language	ard to the language , the in e in which it was filed, unle	nternational search was carr ess otherwise indicated unde	ried out on the basi er this item.	is of the internation	nal application in the	
•	rationly (Hale 25. I(D)).	as carried out on the basis of				
b. With reg. was carr	ard to any nucleotide and ied out on the basis of the	Vor amino acid sequence of sequence listing:	disclosed in the int	ernational applicat	ion, the international search	
		nal application in written form	1.			
f	iled together with the inter	national application in compa	uter readable form.			
f	urnished subsequently to t	his Authority in written form.				
f	urnished subsequently to t	his Authority in computer rea	adble form.			
	he statement that the subs nternational application as	equently furnished written s filed has been furnished.	equence listing do	es not go beyond t	he disclosure in the	
ti	ne statement that the infor urnished	mation recorded in compute	r readable form is i	identical to the writ	tten sequence listing has been	
		d unsearchable (See Box I)	ı .			
3	Inity of Invention is lacki	ng (see Box II).				
4. With regard to	o the title				•	
	ne text is approved as sub	mittad by the population				
_		ed by this Authority to read a	s follows:			
5. With regard to	o the abstract,					
X th	e text is approved as subr	nitted by the applicant.				
	and the mental normal are a	d, according to Rule 38.2(b) ate of mailing of this internal	lioriai search repor	as it appears in Bo t, submit comment	ox III. The applicant may, its to this Authority.	
6. The figure of t	he drawings to be publish	ned with the abstract is Figur	e No.			
o. The lighte of t					·· —	
	suggested by the applica	nt.		ראו	None of the figures.	
as as	suggested by the applica ecause the applicant failed			X	None of the figures.	

INTERMINIONAL SEARCH REPORT



a. classification of subject matter IPC 7 C07C215/24 A61k A61K31/133 A61K7/48 A61K7/06 A61P31/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C07C A61K A61P Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) CHEM ABS Data, WPI Data, PAJ, BEILSTEIN Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X ABRAHAMSSON, SIXTEN ET AL: "Molecular 1-3 arrangements in glycosphingolipids" CHEM. PHYS. LIPIDS (1972), 8(2), 152-79, 1972, XP000920601 page 153; figure 1 page 156, paragraph B -page 159 page 158; figure 3 X WO 90 07571 A (UNIV EMORY) 1-3, 10,12 July 1990 (1990-07-12) 11 claims 20-27 X WO 93 20038 A (GIST BROCADES NV ; SMEETS 1 - 3JAN WILLEM HUBERT (NL); WEBER PIETER GIJS) 14 October 1993 (1993-10-14) page 10 -page 25 page 10, line 2 -/--Χ Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document "O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled *P* document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 16 June 2000 06/07/2000 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.

Fax: (+31-70) 340-3016

Pauwels, G

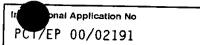


In population No PCT/EP 00/02191

C/Contin	VANA DOGUMENTO CONCIDENTA	PCT/EP 0	0/02191
Category °	Citation of document, with indication, where appropriate, of the relevant passages		[Balananta et al. 1
	1		Relevant to claim No.
χ.	EP 0 373 038 A (FIDIA SPA) 13 June 1990 (1990-06-13) example 3		1-3,6,8
X	STICHT, G. ET AL: "Chemical synthesis of D,L-3-dehydrosphinganine, its C14-, C16-, and C20-homologs and the resolution into the enantiomeric forms" CHEM. PHYS. LIPIDS (1972), 8(1), 10-25, 1972, XP000914283 page 18	·	1-3
x	D. SHAPIRO ET AL.: "The total synthesis of sphingosine" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY., vol. 80, 1952, pages 1194-1197, XP002140009 DC US page 1196, last paragraph -page 1197, left-hand column		1-3,6
(M. PROSTENIK ET AL.: "Studies in the sphyngolipids series-XXIV Synthesis of C18-phytosphingosine" TETRAHEDRON., vol. 21, 1965, pages 651-655, XP002140010 OXFORD GB page 654, paragraph 4 page 655, paragraph 4		1-3
	US 5 723 497 A (IMOKAWA GENJI ET AL) 3 March 1998 (1998-03-03) claims		1-12
	GB 2 323 594 A (MARTIN VICTOR ;KOKOTOS GEORGE (GR)) 30 September 1998 (1998-09-30) page 6 claim 3		1-12
	WO 98 49999 A (STREEKSTRA HUGO ;GIST BROCADES BV (NL); LAMBERS JOHANNES WILHELMUS) 12 November 1998 (1998-11-12) cited in the application claims		1-12
	N.Z. STANACEV ET AL.: "Studies on the chemistry of mucolipids: occurence of the long-chain base icosisphingosine, composition of fatty acids, fractionation attempts" BIOCHIM. BIOPHYS. ACTA, vol. 98, 1965, pages 168-181, XP000914314 page 172, paragraph 1		1-3
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		1	

2





		PCT/EP 00/02191	
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	A. KISIC ET AL.: "Studsies in the sphingolipids series, XXXIL. Synthesis and resolution into optical antipods of C20-phytosphingosine" CHEM. PHYS. LIPIDS (1971), 7, 135-143, 1972, XP000914282 page 142 -page 143	1-3	
X	RUBINO, FEDERICO MARIA ET AL: "Characterization of sphingosine long-chain bases by fast atom bombardment and high-energy collision-induced decomposition tandem mass spectrometry" ORG. MASS SPECTROM. (1992), 27(12), 1357-64, 1992, XP000914394 page 1337, right-hand column, paragraph 3	1-3	

INTERMINIONAL SEARCH REPORT

nform on patent family members

PCT/EP 00/02191

		T		101/11	00/02191
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 900757	1 A	12-07-1990	US AU CA GR US	5190876 A 4816790 A 2006015 A 89100846 A 5459057 A	02-03-1993 01-08-1990 27-06-1990 15-03-1991 17-10-1995
WO 932003	8 A	14-10-1993	AT AU CA DE DE EP ES US	147067 T 670818 B 4959093 A 2131184 A 69307131 D 69307131 T 0633875 A 2098735 T 5631356 A	15-01-1997 01-08-1996 08-11-1993 14-10-1993 13-02-1997 24-04-1997 18-01-1995 01-05-1997 20-05-1997
EP 037303	8 A	13-06-1990	IT AU AU CA DE DK HU JP NO NZ US	1235162 B 149506 T 632771 B 4566489 A 2004190 A 68927821 D 68927821 T 589789 A 209561 B 52107 A,B 2200691 A 3004297 B 894819 A 231590 A 5792858 A 5519007 A	22-06-1992 15-03-1997 14-01-1993 21-06-1990 02-06-1990 10-04-1997 25-09-1997 03-06-1990 28-07-1994 28-06-1990 08-08-1990 31-01-2000 05-06-1990 23-12-1992 11-08-1998 21-05-1996
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